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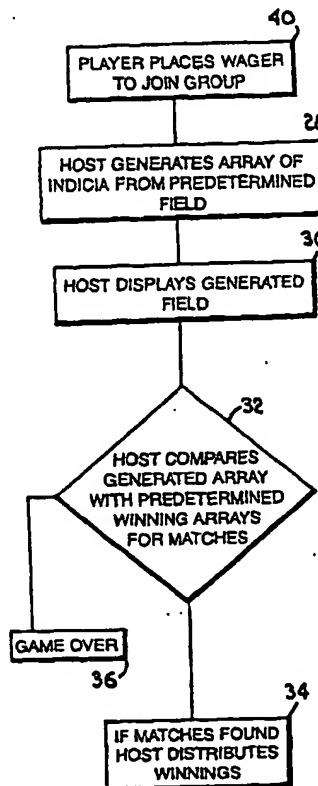
(21) International Application Number: PCT/US99/13846 (22) International Filing Date: 18 June 1999 (18.06.99) (30) Priority Data: 09/106,659 29 June 1998 (29.06.98) US (71) Applicant: POWERHOUSE TECHNOLOGIES, INC. [US/US]; 2311 South 7th Avenue, Bozeman, MT 59715 (US). (72) Inventors: TRACY, Joseph, J.; 3220 Nicholson Road, Westminster, MD 21157 (US). MEYER, Mark, Guthrie; 43 Glenbrook Drive, Phoenix, MD 21131 (US). (74) Agents: KIRCHER, William, B. et al.; Shook, Hardy & Bacon L.L.P. One Kansas City Place, 1200 Main Street, Kansas City, MO 64105-2118 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
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(54) Title: METHOD OF PLAYING A GROUP PARTICIPATION GAME

(57) Abstract

A group wagering game is provided in which all entrants win or lose simultaneously as a group. The method of playing the game includes forming a group (40) consisting of all entrants who have made a wager on the outcome of the game, and determining whether the group is a winner (32). The game can either be played as a stand alone game, or in combination with an individual participation game. When combined with another game, the method includes forming a group (40) of at least some of the entrants in the individual participation game, e.g. all winners, who have made a wager on the outcome of the group participation game. As such, a "bonus" round of play is provided which generates group interest and excitement in the gaming experience.

1	1	50	20	\$5
2	5	5	5	
3	10	5	20	
4	20	2	50	



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METHOD OF PLAYING A GROUP PARTICIPATION GAME

BACKGROUND OF THE INVENTION

This invention relates generally to games of chance, and more particularly to a method of playing a group wagering game in which all entrants win or lose 5 simultaneously as a group.

In known wagering games, each individual entrant places a wager on the outcome of an event such as a roll of dice, a selection of one or more randomly generated indicia such as cards or numbers, a horse or dog race, a Jai Alai game, a sporting event, or the like, and the wager is won or lost depending on the outcome of the event. 10 Typically, entrants are able to place their wagers on one or more of several possible outcomes of an event such that the actual outcome creates both winners and losers among the group of entrants of a particular game.

Some wagering games are designed around a particular apparatus such that the entrants must seek out a gaming table or machine in order to play. Other games 15 can be played anywhere people are gathered and wagering is available. Regardless of the game being played or the venue in which it is presented for wagering, there is a need for a gaming method that will attract new entrants to wagering games and hold the attention of existing entrants so that such games remain attractive relative to the many new games and diversions constantly being developed.

20 BRIEF SUMMARY OF THE INVENTION

It is an object of the present invention to provide a simple wagering game that can be used in combination with existing games to generate and sustain player interest by offering a socially exhilarating group win environment around the game.

It is another object of the present invention to provide a wagering game 25 that can be used as a stand alone game in which all entrants win or lose simultaneously as a group rather than as individuals, again providing group excitement.

In accordance with these and other objects evident from the following description of a preferred embodiment of the invention, a method of playing a group participation wagering game is provided, wherein the game includes the principle steps 30 of forming a group consisting of all entrants who have made a wager on the outcome of the game, determining whether the group as a whole is a winner, and indicating the outcome of the game. Preferably, each entrant is able to make a wager that differs in size

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from the wagers being made by the other entrants, and the size of the winnings awarded to each entrant corresponds to the size of the entrant's wager. However, regardless of the amount of the wager placed by any entrant, all entrants in the group game win or lose together depending on the outcome of the game.

5 In accordance with a particular embodiment of the present invention, the step of determining whether the group is a winner includes randomly generating indicia in an array and comparing at least a portion of the array with one or more predetermined winning combinations of indicia. As such, the entire group can watch the display of such indicia one-by-one, anticipating a win or loss and celebrating or mourning collectively.

10 This social event adds to the enjoyment of the game and draws others to learn about the game and become entrants.

When used in combination with an individual participation game such as keno, bingo, slot machines, card games, dice games, sporting events and the like, the method of the present invention includes the steps of forming a group of at least some of 15 the entrants in the first game, e.g. all winners, who made a wager on the outcome of the group participation game, determining whether the entire group is a winner of the group game, and indicating the outcome of the group game. Again, use of the group game increases the enjoyment of the gaming entrants and draws new players to the games.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

20 The preferred embodiment of the present invention is described in detail below with reference to the attached drawing, wherein:

Fig. 1 is a schematic view of an apparatus for use in hosting a group wagering game in accordance with the preferred embodiment;

25 Fig. 2 is a flow chart of a method of playing a keno game to be used in combination with the group participation game of the preferred embodiment;

Fig. 3 is a flow chart of the method of the preferred group participation game; and

Fig. 4 is a plan view of a display indicating the outcome of a sample iteration of the group participation game.

DETAILED DESCRIPTION OF THE INVENTION

An apparatus capable of being used in hosting a group participation game in accordance with the preferred embodiment of the present invention is illustrated in Fig. 1, and includes a central processing unit 10 for generating random numbers or other indicia and transmitting the generated indicia to plural remote receivers 12, and a monitor or display 14 associated with each receiver for displaying the indicia and providing an indication of the outcome of the game. In addition, the receiver may form a part of a processing unit, such as a conventional interactive compact disk player or the like, for driving the display 14 so that entrants can observe the game in progress and witness the outcome thereof from various remote sites such as restaurants, taverns and gathering spots. Preferably, the central processing unit 10 includes software for generating the random numbers or indicia and for encoding the generated indicia for transmission to the various receivers, and the remote receivers associated with the displays include software for decoding the transmission and for driving the displays.

It is understood that the apparatus shown in Fig. 1 is provided for illustrative purposes only, and that the game of the present invention need not be hosted using any particular apparatus but may instead be carried out by any suitable electronic, mechanical or manual device as would be evident by a reading of the following description. For example, it is possible to employ a number generator in the form of a conventional blower-type apparatus adapted for use with ping pong balls, on which indicia are printed, for randomly generating the indicia, and a manual or mechanical display can be used at one or more locations to display the drawn indicia so that the group of entrants can monitor the progress of the game and determine whether the group is a winner or a loser. As such, the apparatus shown and described does not in any way limit the scope of the present invention, but merely represents one mode for carrying out the game.

In accordance with a first embodiment of the preferred game, the group game is combined with an individual participation keno game. As shown in Fig. 2, the keno game is played by allowing entrants at 16 to select the number of "spots" to be played in a given game of keno, and at 18 to place a wager on the outcome of a random drawing of a predetermined range of indicia or numbers out of a large field, e.g. a drawing of 20 indicia out of a field of 80. If desired, an option may be provided whereby the entrant can allow the host to select his indicia automatically. At 20, the player selects

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the particular indicia or numbers to be played, and at 22 the central processing unit randomly draws the range of indicia from the field, and these indicia are encoded and transmitted to the various remote receivers where they are decoded and displayed, as at step 24. The individual entrants are thus able to watch as the generated range of indicia 5 are displayed so that they can monitor their individual results and determine whether they are a winner or loser in the game. If they are a winner, they turn in their game card, which they filled out when placing their wager, and the indicia they selected are compared with the range for matches at 25.

If at least some of the numbers selected by the entrant are among the 10 numbers in the range drawn from the field, the entrant wins a reward at 26. For example, a the reward for selecting a single indicia that matches one of the 20 indicia drawn from a field of 80 might be \$2, whereas the reward for selecting 10 indicia that match 10 of the 20 indicia drawn from the same field might be \$100,000. If all of the numbers selected by the entrant are not among the range drawn from the field, a smaller percentage of 15 correct selections wins. Thus, if an entrant selected 10 indicia and 5 of them match indicia drawn from the field, a prize of \$2 might be rewarded.

The keno game is combined with the group game of the present invention by allowing an individual to enter the group participation game at the same time he or she enters the keno game. For example, at 16, each entrant is given the opportunity not only 20 to enter the keno game, but also to enter the group participation game, and at 18, an entry fee is paid for each of the games entered. Entrants are not required or allowed to make any selection or prediction of a particular winning combination, and all entrants have the identical odds of winning the game. If the group game is selected and a wager made, then after the keno game is over, the group game is played. With reference to Fig. 3, at 25 28, the same unit 10 used to play the keno game can be used to randomly generate indicia in a predetermined array that is transmitted to the various receivers and displayed at 30. If a comparison of the generated array with a predetermined array or subset thereof, at step 32, reveals a match, then the group is a winner and each entrant is awarded a specified prize for each unit of his or her wager, as at 34. However, if no match is made, 30 the group is a loser, as shown in step 36, and all wagers revert to the operator of the game.

An exemplary display of the outcome of a group participation game played in accordance with the preferred embodiment is shown in Fig. 4, and includes an

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array made up of a plurality of rows and columns in which the randomly generated indicia 38 are displayed. Along the left side of the array are numbers indicating the game or row numbers in the array, and along the right side of the array is a column in which the winnings, if any, are displayed.

5 The indicia 38 generated and displayed in the group game preferably represent multipliers of the wager made by each player, and the odds of a given multiplier correspond to the magnitude of the multiplier. For example, if the multipliers 1, 2, 5, 10, 20 and 50 represent the field from which the range of indicia generated are to be selected, the odds of generating a 1 are far greater than those of generating a 50. One method 10 employed to accomplish this weighted drawing is to employ a large field of numbers, and to assign each multiplier to a predetermined range of numbers, wherein the range of numbers assigned to the larger multipliers is substantially smaller than the range assigned to smaller multipliers. For example, if a field of 1000 numbers is used to generate the 6 multipliers noted, a multiplier of 1 would be generated if any number between 1 and 500 15 is drawn. Likewise, a multiplier of 2 would be generated if any number between 501 and 750 is drawn, a multiplier of 5 would be generated if a number between 751 and 850 is drawn, a multiplier of 10 would be generated if a number of between 851 and 900 is drawn, etc.

20 The multipliers generated during the game are displayed at random locations within the array, as dictated by the central processing unit, and are displayed one-by-one within the array so that all entrants can monitor the progress of the game and anticipate whether the group will win or lose. In the illustrated embodiment, the group wins if the three multipliers in any given row of the array match one another, and the group loses if the multipliers in all of the rows of the array fail to include all matching 25 multipliers. Thus, as shown in Fig. 4, by generating the multiplier 5 for all three columns of row 2 of the array, winnings of \$5 are awarded to all entrants who wagered \$1 on the group game. Because the indicia generated during the game is a multiplier of the amount wagered on the game, if an entrant wagered \$5 on the group game, his or her winnings would be \$25. Thus, although all of the entrants win or lose simultaneously during play 30 of the game, individual entrants are awarded winnings based on the entry wagers made.

 In accordance with another aspect of the preferred game, the indicia 38 generated during the game can be numbers, pictures, playing cards, dice or other indicia representative of actual dollar amounts to be paid to all entrants, or they can be symbols

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or other indicia that must be arranged in a predetermined array or order to represent a winner for the group. In any event, a characteristic feature of the group game is the simultaneous observation of the game by all entrants gathered at each display so that a group excitement of anticipation is generated that draws people to the game and keeps
5 their attention.

When played in combination with an individual participation game such as keno, the group participation game resembles a bonus game in which all players, not just the winners of the keno game, are rewarded by the drawing of a winning combination of multipliers. As such, even if an individual loses his or her keno wager, they have the
10 same chance as all other entrants in the group game to win that game.

Although the "bonus" nature of the game does not exist when it is offered independent of other games, it is possible to host the group game as a stand alone game. In order to play the game in this manner, a group is first formed at 40 of all individuals who enter the game by making a wager, a drawing is made at 28, and a determination is
15 then made at 32, as to whether the group is a winner or loser. Thus, all entrants are able to simultaneously observe the game, and they win or lose as a group rather than as individuals. As with the combination game, none of the entrants is required or allowed to select indicia to play, but rather the entire group wins or loses with the same combinations, providing an environment in which every player is rooting for the same
20 outcome as every other player.

Although the invention has been described with reference to the preferred embodiment illustrated in the attached drawing figures, it is noted that substitutions may be made and equivalents employed herein without departing from the scope of the invention as recited in the claims. For example, the group game can be employed in
25 combination with games other than keno, such as bingo, a lottery, horse racing, dog racing, Jai Alai, table games, and gaming machines.

When the group game is combined with a bingo game, a separate blower is preferably provided along with predetermined quantities of bingo-type balls, wherein the numbers on the balls represent multipliers as described herein. A three-by-three array
30 is displayed in which the randomly drawn balls are arranged, and the group of entrants in the game wins if the multipliers in any row, column or diagonal of the array match a predetermined winning combination. The group is formed of all entrants of the previous

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bingo game who made a wager on the outcome of the group game at the same time that they wagered on the bingo game.

When used in combination with a lottery game, the group game is conducted in conjunction with the lottery drawing in the same manner as it is conducted 5 in combination with the keno game, with the group being formed of all entrants in the lottery who also made a wager on the outcome of the group game.

At the time an individual makes a wager on a dog race, horse race, Jai Alai game or other sporting event, they can also make a wager on a group game that is to be played during an intermission or between events. The group game is hosted as described 10 herein, with multipliers or other indicia being generated and compared with a winning combination of indicia for a match. If such a match occurs, the group wins as a whole, and the amount of the winnings to each player are dictated by the amount of his or her wager.

As gaming machines grow in popularity, and improvements to such 15 machines are made, it is possible to provide a group gaming experience to individual players of such machines by combining the machine play with the group game of the present invention. An example of such a combination would include interrupting regular play of the machines at regular intervals in order to host a group game. Preferably, the group would include all machines that had maintained a predetermined level of play for 20 the previous time interval such that this continued play would represent the wager required to enter the machine in the group game. Alternately, each player could be given the choice to either continue individual play or participate in a group game, the group for the group game would be formed of all those who indicated a desire to wager on the group game. As with the keno game, individuals could be allowed to make an increased 25 wager, and the reward would be a multiplier that would be applied to this wager in establishing an individual's winnings.

The particular game with which the group game is played can vary, as can the apparatus used to host the game and display the indicia being generated by the host. Such variations do not depart from the invention as claimed.

IN THE CLAIMS

1. A method of playing a group participation wagering game comprising the steps of: forming a group consisting of all entrants who have made a wager on the outcome of the game; determining whether the group is a winner; and
5 indicating the outcome of the game at the conclusion thereof.

2. A method as recited in claim 1, wherein the step of determining whether the group is a winner includes randomly generating indicia in an array and comparing at least a portion of the array with a predetermined combination of indicia that represents a winning combination.

10 3. A method as recited in claim 2, wherein the step of indicating the outcome of the game includes displaying each randomly generated indicium one-by-one in the array so that the group can anticipate the chances of winning.

15 4. A method as recited in claim 1, wherein each entrant is able to make a wager that differs in size from the wagers being made by the other entrants, and the size of the winnings awarded to each entrant corresponds to the size of the entrant's
wager.

20 5. A method as recited in claim 2, wherein the step of determining whether the group is a winner includes comparing at least a portion of the array with a plurality of different predetermined combinations of indicia that each represent a winning combination.

25 6. A method of playing a group participation wagering game in combination with an individual participation game, the method comprising the steps of: forming a group of at least some of the entrants in the individual participation game who have made a wager on the outcome of the group participation game; determining whether the entire group is a winner of the group game; and indicating the outcome of the group game at the conclusion thereof.

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7. A method as recited in claim 6, wherein the group forming step includes forming the group of all entrants in the individual participation wagering game who have made a wager on the outcome of the group game.

8. A method as recited in claim 6, wherein the group forming step 5 includes forming the group of all winners of the individual participation wagering game who have made a wager on the outcome of the group game.

9. A method as recited in claim 6, wherein the step of determining whether the group is a winner includes randomly generating indicia in an array and comparing at least a portion of the array with a predetermined combination of indicia that 10 represents a winning combination.

10. A method as recited in claim 9, wherein the step of indicating the outcome of the game includes displaying each randomly generated indicium one-by-one in the array so that the group can anticipate the chances of winning.

11. A method as recited in claim 6, wherein each entrant is able to 15 make a wager on the group game that differs in size from the wagers being made by the other entrants, and the size of the winnings awarded to each entrant corresponds to the size of the entrant's wager.

12. A method as recited in claim 9, wherein the step of determining whether the group is a winner includes comparing at least a portion of the array with a 20 plurality of different predetermined combinations of indicia that each represent a winning combination.

13. A method as recited in claim 6, wherein the individual participation game is keno.

14. A method as recited in claim 6, wherein the individual 25 participation game is bingo.

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15. A method as recited in claim 6, wherein the individual participation game is a game of chance.

16. A method as recited in claim 6, wherein the individual participation game is played on an electronic gaming machine, a plurality of the gaming machines being linked to a central processing unit which performs the step of determining whether the entire group is a winner of the group game.

17. A method as recited in claim 16, wherein each gaming machine performs the step of indicating the outcome of the group game at the conclusion thereof.

18. A method as recited in claim 6, wherein the individual participation game is a lottery.

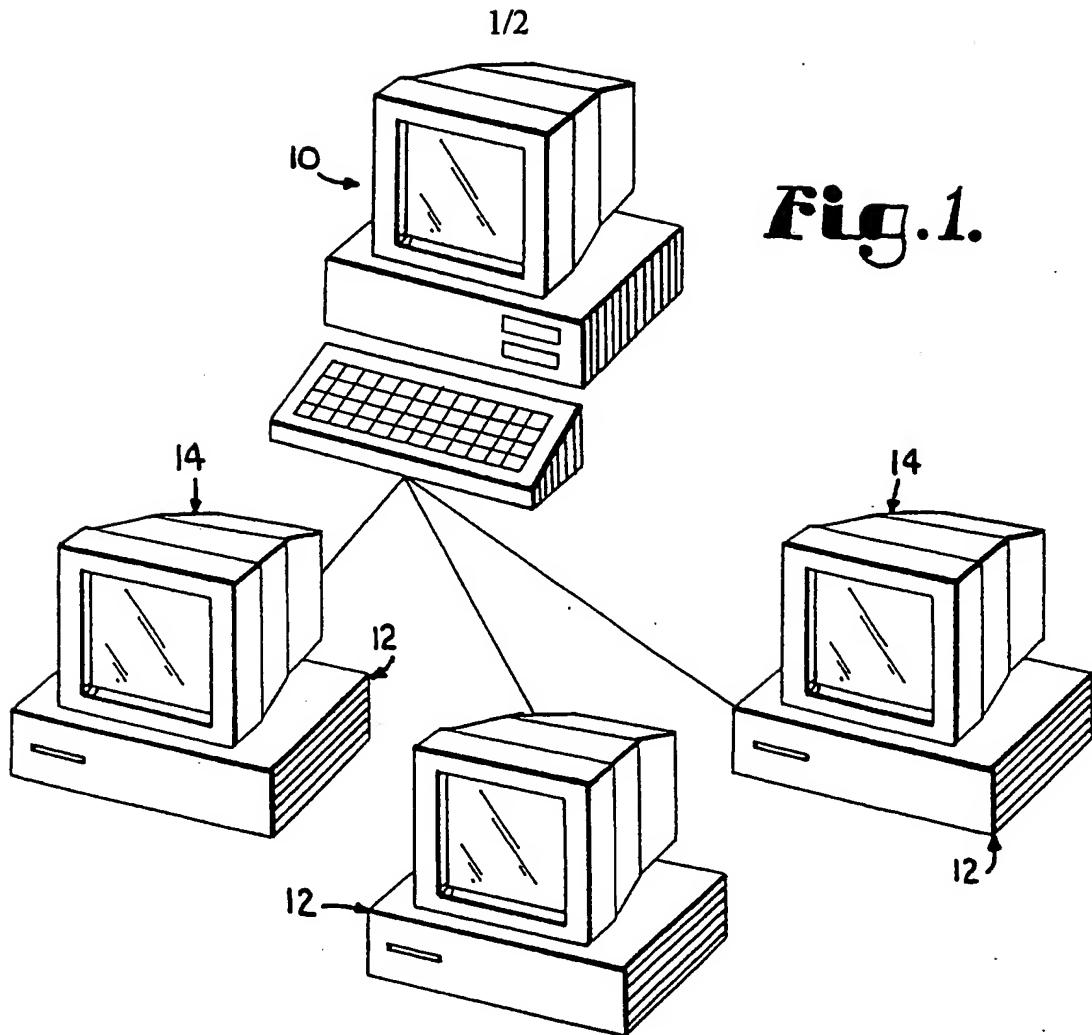


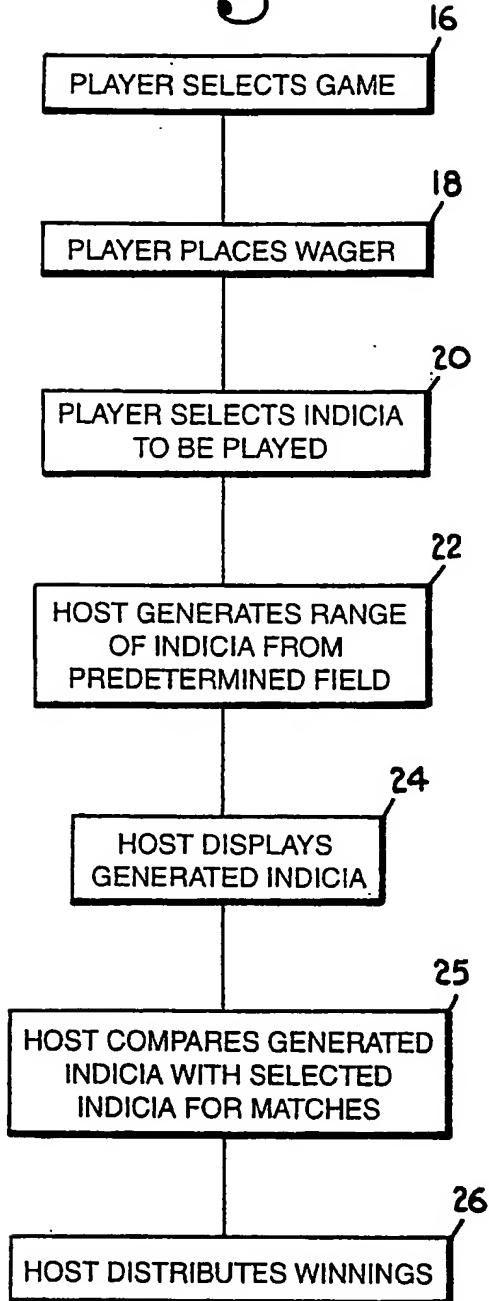
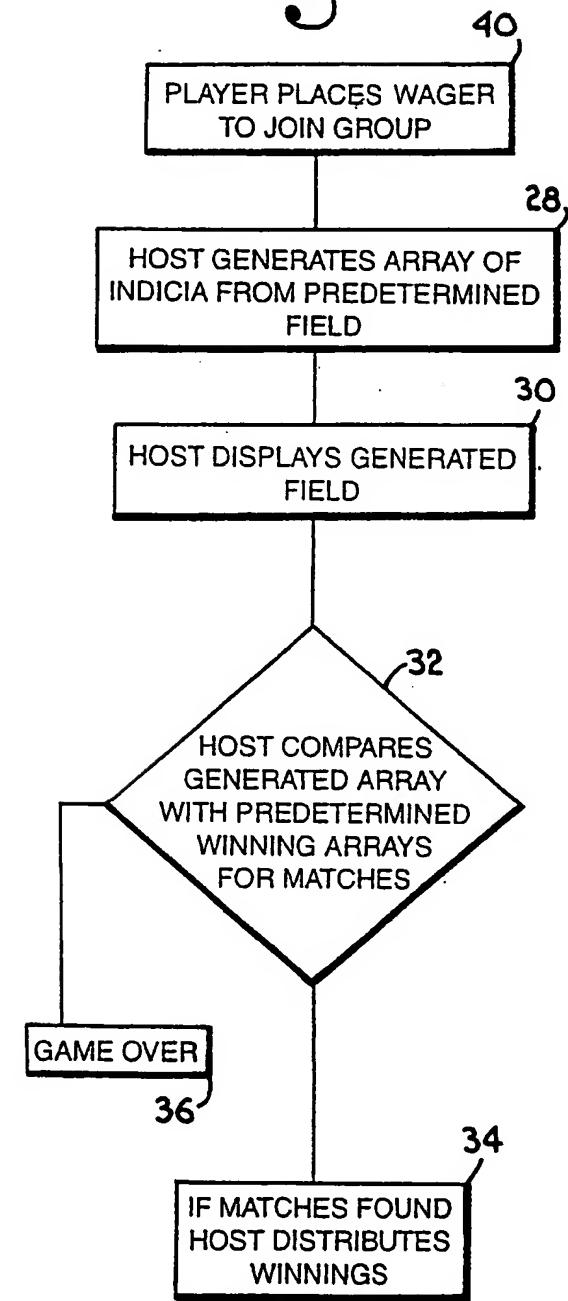
Fig.1.

38

1	1	50	20	
2	5	5	5	\$5
3	10	5	20	38
4	20	2	50	

38

Fig.4.

Fig. 2.**Fig. 3.**

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US99/13846

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : A63F 3/06, 3/08 9/24

US CL : 463/16, 17, 18 19

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 463/16, 17, 18 19

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WEST

search terms: group participation, keno, bingo, lottery

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P	US 5,830,063 A (BYRNE) 03 NOVEMBER 1998, lines 1-12 of abstract, column 1, lines 38-43 and 57-64, figure 2.	1, 4, 6-7, 11, 13 and 15-17
Y, P		2-3, 5, 8-10, 12, 14
X	US 5,564,700 A (CELONA) 15 OCTOBER 1996, column 1, lines 17-43, column 3, lines 35-51, figure 3.	1-5
Y	US 5,112,050 A (KOZA et al) 12 MAY 1992, column 2, lines 47-60.	18
Y	US 5,393,057 A (MARNELL, II) 28 FEBRUARY 1995, figure 1, figure 4, col. 8, lines 23-45.	2-3, 5, 9-10, 12, 14

 Further documents are listed in the continuation of Box C. See patent family annex.

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INTERNATIONAL SEARCH REPORT

International application No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 5,772,509 A (WEISS) 30 JUNE 1998, column 2, lines 60-62, column 6, lines 24-39.	8
A	US 5,770,533 A (FRANCHI) 23 JUNE 1998, figure 2.	1-18
A, P	US RE 35,864 E (WEINGARDT) 28 JULY 1998, figure 8.	1-18